

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-5. (Cancelled)

6. (Withdrawn) Crosscutting tool for high-speed crosscutting, which crosscutting tool (40) comprises a body (42, 43) having circumferential surfaces and a through-hole (41), wherein at least some of said circumferential surfaces form guiding surfaces or aligning surfaces and a striking surface (44), said aligning surfaces forming at least two positively curved edge portions (43A, 43B), having a certain radius (R), and said curved edge portions symmetrically placed with respect to a dividing plane which coincides with the centre axis (C) of said through-hole (41) to radially position the crosscutting tool (40) inside a tool housing (20).

7. (Withdrawn) Crosscutting tool according to Claim 6, wherein said radius (R) is in the range of $0.5-1.5 L$, wherein L relates to a distance from a centre of said through-hole (41) to said edge portions (43A, 43B).

8. (Withdrawn) Crosscutting tool according to Claim 6, wherein an extent (B) in a circumferential direction of said edge portions (43A; 43B) corresponds to $0.5-5 T_v$, wherein T_v relates to a thickness of said body (42, 43).

9. (Withdrawn) Crosscutting tool according to Claim 6, wherein said body (42, 43) comprises two different materials, said two different materials (42, 43) being constituted by an inner (42) and outer (43) concentrically arranged, essentially annular unit, said inner annular unit (42) consisting of hard metal.

10. (Withdrawn) Crosscutting tool according to Claim 9, wherein a movable (40) and fixed (50) crosscutting tool is provided with curved surfaces (43A, 43B; 53A, 53B) having a same radius (R).

11.-12. (Cancelled)

13. (Currently Amended) A tool device for high-speed crosscutting a workpiece, comprising:

- a striking unit comprising a striking piston;
- a tool housing;
- a damper unit;
- a movable crosscutting tool movably arranged within said tool housing;
- a fixed crosscutting tool fixedly arranged within said tool housing;
- said striking piston arranged to administer a force to the movable crosscutting tool;
- said fixed crosscutting tool arranged to exert a detaining force upon the workpiece;
- said damper unit constructed and arranged to brake the striking motion of said movable crosscutting tool, and
- wherein the tool housing has at least two supporting surfaces for positioning said movable crosscutting tool, said supporting surfaces being curved and having a same radius,
- wherein a piston access recess is constructed and arranged between said curved supporting surfaces to provide space for movement of said striking piston therein, and
- wherein said movable crosscutting tool has curved edge surfaces in contact with said curved supporting surfaces of said tool housing, said curved edge surfaces having a substantially similar radius as said curved supporting surfaces to assist in alignment of said tool device.

14. (Currently Amended) The tool device according to claim 13, wherein the tool housing is further provided with a cylindrical fixed tool recess having a same centre line and said same radius as said supporting surfaces, and wherein said cylindrical fixed tool recess is designed for arrangement of said fixed crosscutting tool inside said tool housing.

15. (Currently Amended) The tool device according to claim 14, wherein said cylindrical fixed tool recess is disposed in a homogenous base element belonging to said tool housing.

16. (Currently Amended) The tool device according to claim 15, wherein an axially displaceable adjusting mechanism is disposed coaxially with said cylindrical fixed tool recess for axially adjustable positioning of said fixed crosscutting tool inside said cylindrical fixed tool recess.

17. (Previously Presented) The tool device according to claim 15, wherein a supporting member for said damper unit is designed to be anchored directly to said base element.

18. (Currently Amended) A tool device for high-speed crosscutting, comprising:
a striking unit;
a tool housing;
a damper unit;
a movable crosscutting tool and a fixed crosscutting tool;
said tool housing comprising a solid base element with a horizontally extending circular recess for receiving said fixed crosscutting tool;
said recess having a supporting surface with support material for withstanding impact acting in a transverse direction on said fixed crosscutting tool, the supporting surface being curved and having a radius; and

wherein, in the direction of impact, a vertical material thickness of said solid base element measured from said supporting surface to an upper end surface of said base element is greater than a transverse material thickness of said base element, and

wherein said fixed crosscutting tool has curved edge surfaces that are fitted into said recess of said base element, said curved edge surfaces having a substantially similar radius as said recess to assist in alignment of said tool device.

19. (Currently Amended) The tool device according to claim 18, wherein an extent of said recess in a direction of impact is less than said vertical material thickness in a direction of impact.

20. (Currently Amended) The tool device according to claim 13, wherein said fixed crosscutting tool has curved edge surfaces that are fitted into a cylindrical fixed tool recess of the tool housing, said curved edge surfaces having a substantially similar radius as said cylindrical fixed tool recess.

21. (Previously Presented) The tool device according to claim 18, wherein said base element further comprises a part with a curved supporting surface, and wherein said movable crosscutting tool has curved edge surfaces in contact with said curved supporting surface of said part of said base element, said curved edge surfaces having a substantially similar radius as said curved supporting surface.